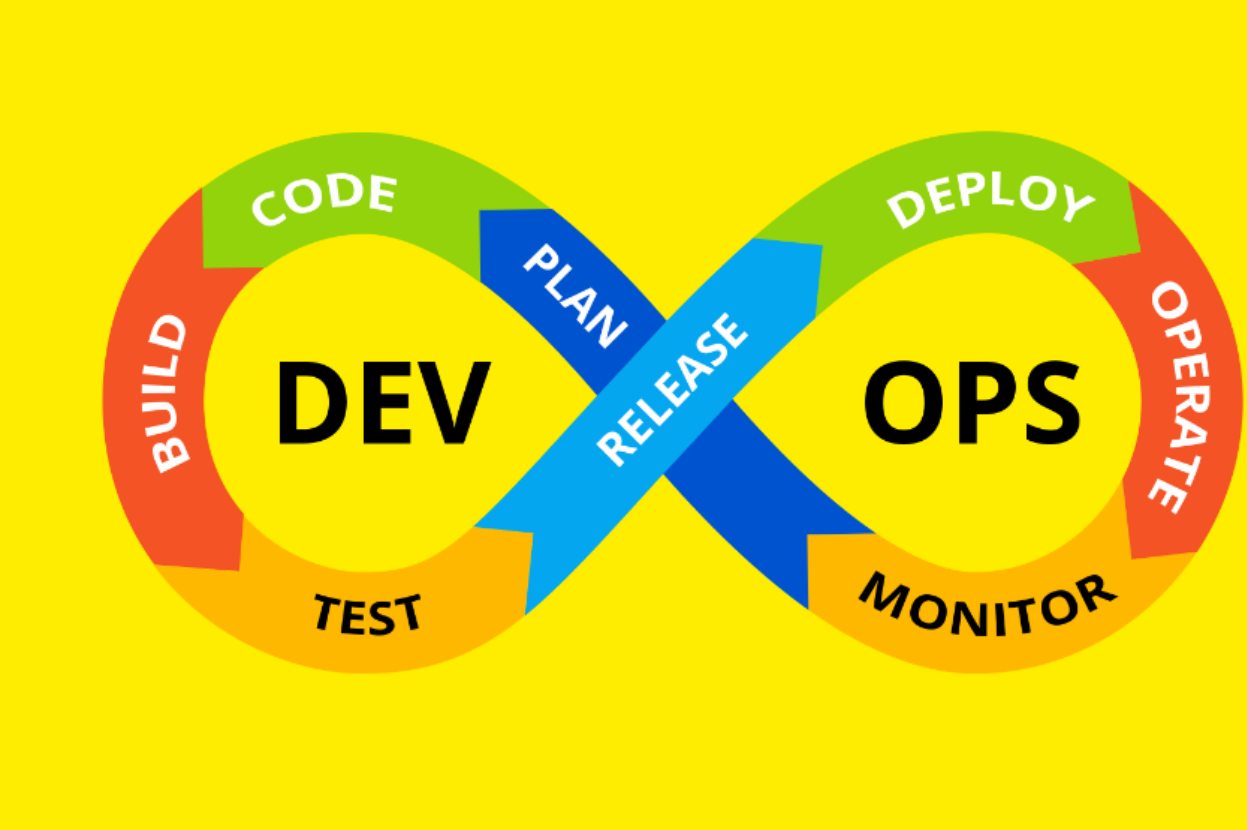
DevOps Image Credit: Olemedia (Unsplash)

Introduction to DevOps

What is DevOps:

🚀 DevOps is a revolutionary methodology where Software Development(Dev 👨💻) Team and Operations(Ops 👨💻) team work together in collaboration 🤝

DevOps enables faster and more reliable delivery of high-quality software to end-users 😎



DevOps

We can understand DevOps with a real life analogy. Lets relate Software Development as cooking a delicious meal 🍱. Here we consider Developers as the Chefs 👩🍳 in a five star hotel who creates and prepare an innovative recipe (i.e code) and Operations as the hotel staff 👨🍳 who is responsible for serving the dish (i.e deploying and maintaining software).

DevOps acts like a perfect Recipe that guides both teams, ensuring they follow the same instructions and create a consistent and delicious dish.

What is Automation, Scaling, Infrastructure:

Automation 🚀: Automation mean to accelerate the tedious, manual task. DevOps Engineers use scripts and automation tools to automate manual and repetitive task. for eg Dishwasher as Automation tool which automates the task of washing dishes with the hand, making dish washing a quick task.

Scaling 🚀: Scaling mean ability to handle workloads when the demand increases such as Big billion day sale of Amazon and when the demand of resources decrease, the resources are minimized

Infrastructure 🏠 : Infrastructure in DevOps mean that managing infrastructure with the help of code. Infrastructure must be robust and carefully designed to support the software applications effectively.

Why is DevOps Important?

1. It maximizes efficiency with automation
2. Shorter development cycles and faster innovation.
3. Reduce implementation failure, recovery time.
4. Better communication and collaboration.
5. Scalability and agility.